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1645

TECH CENTER 1600/2900

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/664,444DATE: 01/23/2002  
TIME: 09:55:14Input Set : A:\#590670 v1 - 2370-63.seq.txt  
Output Set: N:\CRF3\01222002\I664444.raw

3 <110> APPLICANT: PRO-VIRUS, INC.  
5 <120> TITLE OF INVENTION: ONCOLYTIC VIRUS  
7 <130> FILE REFERENCE: 2370-63  
9 <140> CURRENT APPLICATION NUMBER: US/09/664,444  
10 <141> CURRENT FILING DATE: 2000-09-18  
12 <150> PRIOR APPLICATION NUMBER: 09/397,873  
13 <151> PRIOR FILING DATE: 1999-09-17  
15 <160> NUMBER OF SEQ ID NOS: 52  
17 <170> SOFTWARE: PatentIn Ver. 2.1  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 11  
21 <212> TYPE: PRT  
22 <213> ORGANISM: Artificial Sequence  
24 <220> FEATURE:  
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide  
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30 1 5 10  
33 <210> SEQ ID NO: 2  
34 <211> LENGTH: 12  
35 <212> TYPE: PRT  
36 <213> ORGANISM: Artificial Sequence  
38 <220> FEATURE:  
39 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide  
42 <400> SEQUENCE: 2  
43 Cys Leu Asn Ala His Arg Thr Thr His His His Cys  
44 1 5 10  
47 <210> SEQ ID NO: 3  
48 <211> LENGTH: 11  
49 <212> TYPE: PRT  
50 <213> ORGANISM: Artificial Sequence  
52 <220> FEATURE:  
53 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide  
56 <400> SEQUENCE: 3  
57 Cys His Gly Leu His Ser Asn Met Arg His Cys  
58 1 5 10  
61 <210> SEQ ID NO: 4  
62 <211> LENGTH: 9  
63 <212> TYPE: PRT  
64 <213> ORGANISM: Artificial Sequence

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66 <220> FEATURE:  
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
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72 1 5  
75 <210> SEQ ID NO: 5  
76 <211> LENGTH: 9  
77 <212> TYPE: PRT  
78 <213> ORGANISM: Artificial Sequence  
80 <220> FEATURE:  
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
82 peptide  
84 <400> SEQUENCE: 5  
85 Cys His Ser His His His Arg Gly Cys  
86 1 5  
89 <210> SEQ ID NO: 6  
90 <211> LENGTH: 9  
91 <212> TYPE: PRT  
92 <213> ORGANISM: Artificial Sequence  
94 <220> FEATURE:  
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
96 peptide  
98 <400> SEQUENCE: 6  
99 Cys Trp Asp His His Asn His His Cys  
100 1 5  
103 <210> SEQ ID NO: 7  
104 <211> LENGTH: 9  
105 <212> TYPE: PRT  
106 <213> ORGANISM: Artificial Sequence  
108 <220> FEATURE:  
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
110 peptide  
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113 Cys Asp Asn Asn His His His His Cys  
114 1 5  
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118 <211> LENGTH: 10  
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122 <220> FEATURE:  
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126 <400> SEQUENCE: 8  
127 Cys His His His Arg Ile Ser Ser His Cys  
128 1 5 10  
131 <210> SEQ ID NO: 9  
132 <211> LENGTH: 1269  
133 <212> TYPE: DNA

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134 <213> ORGANISM: Vesicular stomatitis virus  
136 <400> SEQUENCE: 9  
137 atgtctgtta cagtcaagag aatcattgac aacacagtca tagttccaaa acttcctgca 60  
138 aatgaggatc cagtggata cccggcgat tacttcagaa aatcaaaggaa gattcctt 120  
139 tacatcaata ctacaaaag tttgtcgat ctaagaggat atgtctacca aggccctcaaa 180  
140 tccggaaatg tatcaatcat acatgtcaac agctacttgt atggagcatt aaaggacatc 240  
141 cggggtaagt tggataaaga ttgtcaagt ttccggataa acatcgaa agcaggggat 300  
142 acaatcgaa tatttgacct tgcgtatcgg aaagccctgg acggctact tccagatgga 360  
143 gtatcgatc cttccagaac cagcgcgat gacaaatggt tgccttgc tctacttggc 420  
144 ttatacagag tggcagaac acaaattgcct gaatacagaa aaaagctcat ggatgggctg 480  
145 acaaattcaat gcaaaatgtat caatgaacag ttgtggccaga aggtcggtgac 540  
146 attttttagt tggggaaa tgacagtaat tacacaaaaaa ttgtcgctgc agtggacatg 600  
147 ttcttcaca tggtaaaaaa acatgaatgt gcctcggtca gatacggAAC tatttttcc 660  
148 agattcaaag attgtgtgc attggcaaca ttggacacc tctgcggaaat aaccggaaatg 720  
149 tctacagaag atgttaacgc ctggatcttgc aaccggaaag ttgcagatga aatggtccaa 780  
150 atgtatcgatc caggccaa aattgacaag gcccattcat acatgccttgc tttgtatcgac 840  
151 ttggattgtt cttctaagtc tccatattct tccgtcaaaa accctgcctt ccacttctgg 900  
152 gggcaattga cagctcttgc gctcgatcc accagagcaa ggaatggcccg acagcctgat 960  
153 gacattgagt atacatcttgc tactacagca gttttgttgt acgcttatgc agtaggatcc 1020  
154 tctggccact tggcacaaca gttttgttgtt ggagataaca aatacactcc agatgatagt 1080  
155 accggaggat tgacgactaa tgccaccgcca caaggcagag atgtgtcgaa atggctcgga 1140  
156 tggggaaa atcaaaacag aaaaccgact cctgatatga tgcagatgc gaaaagagca 1200  
157 gtcatgtcac tgcaaggcct aagagagaag acaattggca agtatgctaa gtcagaattt 1260  
158 gacaaatgtat 1269  
161 <210> SEQ ID NO: 10  
162 <211> LENGTH: 1269  
163 <212> TYPE: DNA  
164 <213> ORGANISM: Vesicular stomatitis virus  
166 <400> SEQUENCE: 10  
167 atgtctgtta cagtcaagag aatcattgcc aacacagtca tagttccaaa acttcctgca 60  
168 aatgaggatc cagtggata cccggcgat tacttcagaa aatcaaaggaa gattcctt 120  
169 tacatcaata ctacaaaag tttgtcgat ctaagaggat atgtctacca aggccctcaaa 180  
170 tccggaaatg tatcaatcat acatgtcaac agctacttgt atggagcatt gaaggacatc 240  
171 cggggtaagt tggataaaga ttgtcaagt ttccggataa acatcgaa ggcaggggat 300  
172 acaatcgaa tatttgacct tgcgtatcgg aaagccctgg acggctact tccagatgga 360  
173 gtatcgatc cttccagaac cagcgcgat gacaaatggt tgccttgc tctacttggc 420  
174 ttatacagag tggcagaac acaaattgcct gaatacagaa aaaggctcat ggatgggctg 480  
175 acaaattcaat gcaaaatgtat caatgaacag ttgtggccaga aggtcggtgac 540  
176 attttttagt tggggaaa tgacagtaat tacacaaaaaa ttgtcgctgc agtggacatg 600  
177 ttcttcaca tggtaaaaaa acatgaatgt gcctcggtca gatacggAAC tatttttcc 660  
178 agattcaaag attgtgtgc attggcaaca ttggacacc tctgcggaaat aaccggaaatg 720  
179 tctacagaag atgttaacgc ctggatcttgc aaccggaaag ttgcagatga gatggtccaa 780  
180 atgtatcgatc caggccaa aattgacaag gcccattcat acatgccttgc tttgtatcgac 840  
181 ttggattgtt cttctaagtc tccatattct tccgtcaaaa accctgcctt ccacttctgg 900  
182 gggcaattga cagctcttgc gctcgatcc accagagcaa ggaatggcccg acagcctgat 960  
183 gacattgagt atacatcttgc tactacagca gttttgttgt acgcttatgc agtaggatcc 1020  
184 tctggccact tggcacaaca gttttgttgtt ggagataaca aatacactcc agatgatagt 1080  
185 accggaggat tgacgactaa tgccaccgcca caaggcagag atgtgtcgaa atggctcgga 1140  
186 tggggaaa atcaaaacag aaaaccgact cctgatatga tgcagatgc gaaaacgagca 1200

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187 gtcatgtcac tgcaaggcct aagagagaag acaattggca agtatgctaa gtcagaattt 1260
188 gacaaaatga 1269
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 1269
193 <212> TYPE: DNA
194 <213> ORGANISM: Vesicular stomatitis virus
196 <400> SEQUENCE: 11
197 atgtctgtta cagtcaagag aatcattgc aacacagtca tagttccaaa acttcctgca 60
198 aatgaggatc cagtggata cccggcagat tacttcagaa aatcaaagga gattccttct 120
199 tacatcaata ctacaaaaag tttgtcagat ctaagaggat atgtctacca aggccctcaaa 180
200 tccggaaatg tatcaatcat acatgtcaac agctacttgtt atggagcatt gaaggacatc 240
201 cggggtaagt tggataaaga ttgttcaagt ttccggataaa acatcgggaa ggcaggggat 300
202 acaatcggaa tatttgacct tttttttttt aaagccctgg acgggttact tccagatgga 360
203 gtatcggatc cttccagaac cagcgcagat gacaaatggt tgccttttta tctacttggc 420
204 ttatacagag tgggcagaac acaaattgcct gaatacagaa aaaggctcat ggatgggctg 480
205 acaaattcaat gcaaaatgtat caatgaacag tttgaacccctt ttgtgccaga aggtcggtgac 540
206 attttttagt tttttttttt tgacagtaat tacacaaaaaa ttgtcgctgc agtggacatg 600
207 ttcttccaca tttttttttt acatgaatgt gcctcggttca gatacggaaat tattttttcc 660
208 agattcaaaag attgtgtgc attggcaaca tttggacacc tctgcggaaat aaccggaaatg 720
209 tctacagaag atgttaacgc acatgtcaac tttttttttt ttgcagatga gatggtccaa 780
210 atgtatgcctt caggccaaaga aattgacaag gcccattcat acatgccttta tttgtatcgac 840
211 tttttttttt cttctaagtc tccatattct tccgtcaaaa accctgcctt ccacttctgg 900
212 gggcaattgtt cagctttctt gctcagatctt accagagccaa ggaatccccg acagccctgat 960
213 gacattgatc atacatctt tactacagca gttttttttt acgtttatgc agtaggatcc 1020
214 tctgtgtact tggcacaaca gttttttttt ggagatagca aatacactcc agatgatagt 1080
215 accggaggat tgacgactaa tgcaccgcctt caaggccagat tttttttttt atggctcgat 1140
216 tggggggaaat atcaaaccat aaccggactt cctgtatatgt tgcagatgc gaaacgagca 1200
217 gtcatgtcac tgcaaggcct aagagagaag acaattggca agtatgctaa gtcagaattt 1260
218 gacaaaatga 1269
221 <210> SEQ ID NO: 12
222 <211> LENGTH: 1269
223 <212> TYPE: DNA
224 <213> ORGANISM: Vesicular stomatitis virus
226 <400> SEQUENCE: 12
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228 aatgaggatc cagtggata cccggcagat tacttcagaa aatcaaagga gattccttct 120
229 tacatcaata ctacaaaaag tttgtcagat ctaagaggat atgtctacca aggccctcaaa 180
230 tccggaaatg tatcaatcat acatgtcaac agctacttgtt atggagcatt gaaggacatc 240
231 cggggtaagt tggataaaga ttgttcaagt ttccggataaa acatcgggaa ggcaggggat 300
232 acaatcggaa tatttgacct tttttttttt aaagccctgg acgggttact tccagatgga 360
233 gtatcggatc cttccagaac cagcgcagat gacaaatggt tgccttttta tctacttggc 420
234 ttatacagag tgggcagaac acaaattgcct gaatacagaa aaaggctcat ggatgggctg 480
235 acaaattcaat gcaaaatgtat caatgaacag tttgaacccctt ttgtgccaga aggtcggtgac 540
236 attttttagt tttttttttt tgacagtaat tacacaaaaaa ttgtcgctgc agtggacatg 600
237 ttcttccaca tttttttttt acatgaatgt gcctcggttca gatacggaaat tattttttcc 660
238 agattcaaaag attgtgtgc attggcaaca tttggacacc tctgcggaaat aaccggaaatg 720
239 tctacagaag atgttaacgc acatgtcaac tttttttttt ttgcagatga gatggtccaa 780
240 atgtatgcctt caggccaaaga aattgacaag gcccattcat acatgccttta tttgtatcgac 840
241 tttttttttt cttctaagtc tccatattct tccgtcaaaa accctgcctt ccacttctgg 900

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Input Set : A:\#590670 v1 - 2370-63.seq.txt  
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242 gggcaattga cagctttct gctcagatcc accagagcaa ggaatgccc acagcctgat 960
243 gacattgagt atacatctct tactacagca ggtttgtgt acgccttatgc agtaggatcc 1020
244 tctgctgact tggcacaca gttttgtgtt ggagatagca aatacactcc agatgatagt 1080
245 accggaggat tgacgactaa tgccaccgcca caaggcagag atgtggtcga atggctcgga 1140
246 tggtttgaag atcaaaacag aaaaccgact cctgatatga tgcagtatgc gaaacgagca 1200
247 gtcatgtcac tgcaaggcct aagagagaag acaattggca agtatgctaa gtcagaattt 1260
248 gacaaatga 1269
251 <210> SEQ ID NO: 13
252 <211> LENGTH: 1029
253 <212> TYPE: DNA
254 <213> ORGANISM: Vesicular stomatitis virus
256 <220> FEATURE:
257 <221> NAME/KEY: modified_base
258 <222> LOCATION: (1)..(1029)
259 <223> OTHER INFORMATION: "n" represents a, t, c, g, other or unknown
261 <400> SEQUENCE: 13
262 tcaatcatac atgtcaaacag ctacttgtat ggagcatatga aggacatccg gggtaagttg 60
263 gataaaagatt ggtcaagttt cgaataaaac atcgggaagg caggggataac aatcggaaata 120
264 tttgacccctg tatccttcaa agccctggac ggtgtacttc cagatggagt atcggatgtc 180
265 tccagaacca gcgcagatga caaatggttt cctttgtatc tacttggcatt atacagagtg 240
266 ggcagaacac aaatgcctga atacagaaaa aggctcatgg atgggctgac aaatcaatgc 300
267 aaaatgatca atgaacagtt tgaacctctt gtgccagaag gtcgtgacat ttttgcgtgt 360
268 tggggaaatg acagtaatta cacaaaaatt gtcgctgcag tggacatgtt cttccacatg 420
269 ttcaaaaaac atgaatgtgc ctcgttcaga tacggaacta ttgtttccag attcaaagat 480
270 tgtgctgcat tggcaacatt tggcacaccc tcgaaaataa ccggaatgtc tacagaagat 540
271 gtaacgacct ggatcttcaa ccgagaagtt gcagatgaga tggtccaaat gatgcttcca 600
272 ggccaagaaa ttgacaaggc cgattcatac atgccttatt tgatcgactt tggattgtct 660
273 tctaagtctc catattctt cgtcaaaaac cctgccttcc acttctgggg gcaattgact 720
274 gacattgagt atacatctcn tactacagca ggtttgtgt acgccttatgc agtaggatcc 780
275 tctgctgact tggcacanca gttttgtgtt ggagatagca aatacactcc agatgatagt 840
276 accggaggat tgacgactaa tgccaccgcca caaggcagag atgtggtcga atggctcgga 900
277 tggtttgaag atcaaaacag aaaaccgact cctgatatga tgcagtatgc gaaacgagca 960
278 gtcatgtcac tgcaaggcct aagagagaag acaattggca agtatgctaa gtcagaattt 1020
279 gacaaatga 1029
282 <210> SEQ ID NO: 14
283 <211> LENGTH: 422
284 <212> TYPE: PRT
285 <213> ORGANISM: Vesicular stomatitis virus
287 <400> SEQUENCE: 14
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289 1 5 10 15
291 Lys Leu Pro Ala Asn Glu Asp Pro Val Glu Tyr Pro Ala Asp Tyr Phe
292 20 25 30
294 Arg Lys Ser Lys Glu Ile Pro Leu Tyr Ile Asn Thr Thr Lys Ser Leu
295 35 40 45
297 Ser Asp Leu Arg Gly Tyr Val Tyr Gln Gly Leu Lys Ser Gly Asn Val
298 50 55 60
300 Ser Ile Ile His Val Asn Ser Tyr Leu Tyr Gly Ala Leu Lys Asp Ile
301 65 70 75 80

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Use of n and/or Xaa has been detected in the Sequence Listing.

→ Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:1555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:1754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:2169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51  
L:2637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51  
L:3207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52